Performance Data Sheet

RGA5494BAA

General Information

Model	RGA5494BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3040	3010					
	Watts	564	596					
	Amps	6.57	6.86					
	Lb/h	39.7	39.0					
-10	Btu/h	3550	3460	3360				
	Watts	575	612	650				
	Amps	6.60	6.92	7.25				
	Lb/h	45.1	44.2	43.2				
-5	Btu/h	4130	3970	3800	3630			
	Watts	584	627	669	713			
	Amps	6.62	6.98	7.34	7.71			
	Lb/h	51.2	50.1	48.9	47.6			
0	Btu/h	4770	4540	4310	4070	3830		
	Watts	591	638	686	734	784		
	Amps	6.64	7.03	7.42	7.83	8.24		
	Lb/h	58.1	56.8	55.4	53.9	52.3		
5	Btu/h	5480	5180	4880	4580	4270		
	Watts	595	647	700	754	808		
	Amps	6.64	7.06	7.49	7.93	8.37		
	Lb/h	65.7	64.2	62.6	60.9	59.1		
10	Btu/h	6260	5890	5520	5150	4770	4390	4010
	Watts	596	654	712	770	830	890	951
	Amps	6.62	7.09	7.55	8.02	8.50	8.99	9.48
	Lb/h	74.1	72.3	70.5	68.6	66.6	64.6	62.4
15	Btu/h	7100	6660	6230	5780	5340	4890	4440
	Watts	595	658	721	784	849	914	980
	Amps	6.60	7.10	7.60	8.11	8.62	9.14	9.66
	Lb/h	83.2	81.2	79.2	77.1	74.9	72.6	70.2
20	Btu/h	8020	7510	7000	6490	5970	5460	4940
	Watts	591	659	727	796	866	936	1010
	Amps	6.56	7.10	7.63	8.18	8.73	9.28	9.84
	Lb/h	93.0	90.8	88.6	86.3	83.9	81.4	78.8

25	Btu/h	9000	8420	7840	7260	6680	6090	5500
	Watts	585	658	731	805	880	955	1030
	Amps	6.51	7.08	7.66	8.24	8.82	9.41	10.0
	Lb/h	104	101	98.8	96.2	93.6	90.9	88.1
30	Btu/h	10100	9410	8760	8100	7450	6790	6130
	Watts	576	654	733	812	892	972	1050
	Amps	6.44	7.05	7.66	8.28	8.90	9.53	10.2
	Lb/h	115	112	110	107	104	101	98.1
35	Btu/h	11200	10500	9740	9020	8290	7560	6830
	Watts	564	648	732	816	901	986	1070
	Amps	6.36	7.01	7.66	8.31	8.97	9.63	10.3
	Lb/h	127	124	121	118	115	112	109
40	Btu/h	12400	11600	10800	10000	9210	8410	7610
	Watts	549	638	728	817	908	998	1090
	Amps	6.26	6.94	7.63	8.33	9.02	9.72	10.4
	Lb/h	140	137	134	131	127	124	120
45	Btu/h	13700	12800	11900	11100	10200	9320	8450
	Watts	532	627	721	816	912	1010	1100
	Amps	6.14	6.87	7.60	8.33	9.06	9.80	10.5
	Lb/h	154	151	147	144	140	136	133
50	Btu/h	15000	14100	13100	12200	11300	10300	9360
	Watts	512	612	712	813	913	1010	1120
	Amps	6.00	6.77	7.54	8.31	9.09	9.86	10.6
	Lb/h	169	165	161	157	154	150	146
55	Btu/h	16500	15400	14400	13400	12400	11400	10300
	Watts	490	595	700	806	913	1020	1130
	Amps	5.85	6.66	7.47	8.28	9.09	9.91	10.7
	Lb/h	184	180	176	172	168	164	160

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.567441E+03	2.237472E+02	3.581613E+00	6.746194E+01
C2	2.461567E+02	-7.343954E+00	-5.733401E-02	1.818791E+00
C3	-2.250614E+01	4.610111E+00	3.835620E-02	-1.197397E-01
C4	1.442866E+00	-5.838754E-02	-3.225143E-04	1.593632E-02
C5	-1.421685E+00	1.085018E-01	7.637971E-04	-5.070080E-03
C6	8.162235E-03	-1.689449E-03	-1.347199E-05	1.994198E-04
C7	1.534418E-03	-2.315661E-05	-9.096763E-07	8.328316E-06
C8	-1.486293E-03	8.552725E-05	1.131656E-06	-1.327783E-05
C9	4.031217E-04	-4.302469E-05	-3.964474E-07	5.349461E-06
C10	-8.957856E-05	1.804880E-05	1.417666E-07	-2.102866E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature